5.6.2 Minimum Efficiency Standards for Residential Heating and Cooling Equipment

		Typical Maximum Energy Use for Space Heating a Single-Family Residence (2)											
				1992				2006					
Heating Equipment	Minimum Efficiency (1)		New		Existing		N	New		Existing			
	<u>1992</u>	<u>2006</u>		North	South	North	South	<u>North</u>	South	North	South		
Natural Gas, Furnace	78 AFUE	78 AFUE		1170	445	1489	771	1170	445	1489	771		
Oil, Boiler	80 AFUE	80 AFUE		731	N.A.	930	422	731	N.A.	930	422		
Electric, Heat Pump	6.8 HSPF	7.7 HSPF	-	12923	4685	11232	5546	11412	4137	9919	4898		

	Typical Maximum Electricity Use for Space Cooling a Single-Family Residence												nce
				1992					2006				
	Minimum Efficiency (3)			New		Existing		_	New				
Cooling Equipment	<u>1992</u>	2006		North	South	North	South		North	South	North	South	
Central Air-Conditioning	10 SEER	13 SEER		1113	2543	1000	3743		927	2119	833	3119	
Electric, Heat Pump	10 SEER	13 SEER		1100	2414	813	2657		846	1857	625	2044	

Note(s): 1) AFUE = Annual Fuel Utilization Efficiency. HSPF = Heating Season Performance Factor. 2) Gas use is in therms. Oil use is in gallons. Electricity use is in kWh. 3) SEER = Seasonal Energy Efficiency Ratio.

Source(s): DOC/GPO, Title 10, Chapter 2, Part 430, Section 430.32, Jan 1, 2001, p. 259 for efficiencies; LBNL, Energy Data Sourcebook for the U.S. Residential Sector, Sept. 1997, Table 3.20, p. 52-53 and Table 3.21, p. 58; and Federal Register, Energy Conservation Program for Consumer Products: Central Air Conditioners and Heat Pumps Energy Conservation Standards, Vol. 66 No. 14, January 22, 2001, p. 7170 for central air conditioner and heat pump.